

THIS MESSAGE CONSTITUTES OFFICIAL NOTIFICATION OF BI-MONTHLY STATION ALLOWANCE CHANGES EFFECTIVE **16 JULY 2003**, FOR THE FOLLOWING COUNTRIES: **ALGERIA, AUSTRIA, BELGIUM, BRAZIL, COSTA RICA, ECUADOR, ESTONIA, FINLAND, FRANCE, GERMANY, GIBRALTAR, GREECE, GUAM, HONDURAS, HUNGARY, ICELAND, INDIA, IRELAND, ISRAEL, ITALY, JERUSALEM, LITHUANIA, LUXEMBOURG, MALI, MAURITIUS, NEPAL, NETHERLANDS, NEW ZEALAND, NORWAY, POLAND, PORTUGAL, PUERTO RICO, SINGAPORE, SPAIN, SWEDEN, SWITZERLAND, THAILAND AND UNITED KINGDOM**

THE CHANGES ARE GROUPED BY TYPE OF ALLOWANCE (SECTION A: COST-OF-LIVING; SECTION B: OVERSEAS HOUSING ALLOWANCE; SECTION C: EXCHANGE RATES); THEREFORE, A COUNTRY/ LOCALITY MAY BE LISTED IN MORE THAN ONE SECTION OF THE MESSAGE.

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## SECTION A

### APPENDIX J - COST-OF-LIVING INDEXES WILL CHANGE AS FOLLOWS:

COUNTRY: (AG) ALGERIA CHANGE CODE(S): D

FROM	TO	LOCALITIES
104	102	999

COUNTRY: (AU) AUSTRIA CHANGE CODE(S): X

FROM	TO	LOCALITIES
154	146	005, 999

COUNTRY: (BE) BELGIUM CHANGE CODE(S): X

FROM	TO	LOCALITIES
144	136	002, 015, 055, 999
132	128	019, 030
140	134	040

COUNTRY: (EC) ECUADOR CHANGE CODE(S): D

FROM	TO	LOCALITIES
106	108	005, 999

COUNTRY: (EN) ESTONIA CHANGE CODE(S): X

FROM	TO	LOCALITIES
122	114	999

COUNTRY: (FI) FINLAND CHANGE CODE(S): X

FROM	TO	LOCALITIES
146	138	999

COUNTRY: (FR) FRANCE

CHANGE CODE(S): X

FROM	TO	LOCALITIES
158	148	999
164	154	004, 009, 011, 014, 015, 025, 037, 201

COUNTRY: (GM) GERMANY

CHANGE CODE(S): D,X

FROM	TO	LOCALITIES
126	122	019, 027, 039, 059, 063, 101, 109, 111, 113, 117, 123, 129, 137, 143, 147, 153, 207, 212, 216, 222, 228, 229, 230, 301, 307, 311, 313, 317, 321, 323, 327, 329, 335, 339, 349, 353, 355, 357, 359, 503, 601, 603, 605, 609, 613, 619, 621, 629, 635, 641, 643,
132	128	017, 021, 025, 041, 103, 121, 125, 131, 139, 162, 165, 219, 531, 549, 551, 573, 651, 721
N/L	128	181
140	134	033, 067, 071, 079, 095, 145, 157, 199, 203, 221, 224, 369, 401, 405, 407, 409, 411, 413, 415, 417, 425, 429, 464, 469, 507, 511, 523, 539, 555, 565, 599, 703, 705, 723, 815, 939
148	140	133, 169, 501
156	148	201, 205
140	134	055, 061
126	120	227, 231

Effective 16 July 2003, GM181 Furstenfeldbruck is established for COLA

COUNTRY: (GI) GIBRALTAR

CHANGE CODE(S): X

FROM	TO	LOCALITIES
144	140	001

Effective 16 July 2003, COLA unique is revised from \$453 to \$437 for all members in Gibraltar

COUNTRY: (GR) GREECE

CHANGE CODE(S): X

FROM	TO	LOCALITIES
138	132	003, 015, 017
134	128	011
None	N/C	999
116	110	007
114	110	001

COUNTRY: (IC) ICELAND

CHANGE CODE(S): X

FROM	TO	LOCALITIES
158	150	001
162	150	005
None	N/C	999

COUNTRY: (IN) INDIA

CHANGE CODE(S): X

FROM	TO	LOCALITIES
106	108	001, 050, 999

COUNTRY: (EI) IRELAND

CHANGE CODE(S): X

FROM	TO	LOCALITIES
154	146	001, 999

COUNTRY: (IT) ITALY

CHANGE CODE(S): X

FROM	TO	LOCALITIES
128	122	073, 100
128	122	005, 031, 035, 059
140	134	007, 033, 054, 064, 068
142	136	055
142	136	029
150	142	038, 063, 066
138	132	025
132	126	001
138	132	022, 027, 062
140	134	071
138	132	067

COUNTRY: (LH) LITHUANIA

CHANGE CODE(S): X

FROM	TO	LOCALITIES
126	120	999

COUNTRY: (LU) LUXEMBOURG

CHANGE CODE(S): D,X

FROM	TO	LOCALITIES
144	138	001

COUNTRY: (ML) MALI

CHANGE CODE(S): D

FROM	TO	LOCALITIES
116	122	999

COUNTRY: (MP) MAURITIUS

CHANGE CODE(S): X

FROM	TO	LOCALITIES
None	N/C	999

COUNTRY: (NL) NETHERLANDS

CHANGE CODE(S): X

FROM	TO	LOCALITIES
128	122	015
146	138	009, 025, 050
138	132	003, 007, 017, 021, 041, 065, 999
140	132	001
136	130	027, 035

COUNTRY: (NO) NORWAY

CHANGE CODE(S): X

FROM	TO	LOCALITIES
158	154	003, 021
174	168	001, 005, 007, 016, 025

COUNTRY: (PL) POLAND

CHANGE CODE(S): X

FROM	TO	LOCALITIES
116	110	001, 005, 999

COUNTRY: (PO) PORTUGAL

CHANGE CODE(S): X

FROM	TO	LOCALITIES
130	124	002
108	106	015, 999

COUNTRY: (SN) SINGAPORE

CHANGE CODE(S): X

FROM	TO	LOCALITIES
128	126	001

Effective 16 July 2003, COLA unique is revised from \$750 to \$729 for all members in Singapore

COUNTRY: (SP) SPAIN

CHANGE CODE(S): X

FROM	TO	LOCALITIES
128	122	005, 012, 014, 019, 999
120	116	018
138	130	007, 008, 009, 017, 022, 023, 027, 060
None	N/C	004

COUNTRY: (SW) SWEDEN

CHANGE CODE(S): X

FROM	TO	LOCALITIES
158	152	001, 003, 999

COUNTRY: (SZ) SWITZERLAND

CHANGE CODE(S): X

FROM	TO	LOCALITIES
198	182	001, 005, 009, 015, 999

COUNTRY: (UK) UNITED KINGDOM

CHANGE CODE(S): X

FROM	TO	LOCALITIES
124	122	001, 153, 207, 352, 418, 463, 883, 885
132	128	031, 042, 129, 133, 148, 149, 178, 189, 198, 218, 243, 248, 251, 267, 273, 284, 320, 341, 348, 349, 376, 384, 388, 401, 411, 439, 481, 484, 490, 493, 518, 525, 530, 561, 568, 575, 576, 635, 641, 646, 868
138	134	055, 058, 087, 103, 105, 139, 161, 194, 221, 229, 235, 237, 280, 302, 318, 330, 405, 496, 502, 508, 514, 553, 571, 577, 600, 615, 676, 687, 711, 733, 739, 741, 742, 743, 760, 766, 784, 789, 795, 811, 819, 824, 834, 841, 847, 863, 865, 884
140	138	319
144	142	380
140	136	517
134	130	497, 559
126	124	313

Effective 16 July 2003, COLA unique is revised from \$472 to \$456 for all members in the United Kingdom

## SECTION B

### APPENDIX K, TABLE I - OVERSEAS HOUSING ALLOWANCES

NOTE: FOR MOST COUNTRIES, OHA TABLES ARE PUBLISHED IN LOCAL CURRENCY AND ONLY DATA CHANGES ARE REPORTED. ALL CURRENCY CHANGES ARE REPORTED IN SECTION C.

COUNTRY: (AU) AUSTRIA  
Rate of Exchange: 1.149425  
CHANGE CODE(S): X

COUNTRY: (BE) BELGIUM  
Rate of Exchange: 1.149425  
CHANGE CODE(S): X

COUNTRY: (BR) BRAZIL  
Rate of Exchange: 0.351247  
CHANGE CODE(S): X

COUNTRY: (CS) COSTA RICA  
Rate of Exchange: 0.002508  
CHANGE CODE(S): X

COUNTRY: (EN) ESTONIA  
Rate of Exchange: 0.073465  
CHANGE CODE(S): X

COUNTRY: (FI) FINLAND  
Rate of Exchange: 1.149425  
CHANGE CODE(S): X

COUNTRY: (FR) FRANCE  
Rate of Exchange: 1.149425  
CHANGE CODE(S): X

COUNTRY: (GM) GERMANY  
Rate of Exchange: 1.149425  
CHANGE CODE(S): D,X,E

				O4/W5 /W4	O3 /W3	O2/W2 /W1/		
<u>LOCALITY</u>	<u>CODE</u>	<u>O6</u>	<u>O5</u>	<u>O3E</u>	<u>O2E</u>	<u>O1E</u>	<u>O1</u>	
GERMANY: 3,4/	GM							
FURSTENFELDBRUCK (B)		181	1700	1700	1700	1446	1364	1364

								E2/E1
<u>LOCALITY</u>	<u>CODE</u>	<u>E9</u>	<u>E8</u>	<u>E7</u>	<u>E6</u>	<u>E5</u>	<u>E4</u>	<u>E3</u>
GERMANY: 3,4/	GM							
FURSTENFELDBRUCK (B)		181	1364	1364	1364	1364	792	751 731

Effective 16 July 2003, GM181 Furstenfeldbruck is established for OHA, with Utility Allowance 446 Euros and MIHA Miscellaneous Allowance of 729 Euros.

COUNTRY: (GI) GIBRALTAR  
Rate of Exchange: 1.680108  
CHANGE CODE(S): X

COUNTRY: (GR) GREECE  
Rate of Exchange: 1.149425

CHANGE CODE(S): X

COUNTRY: (GQ) GUAM

CHANGE CODE(S): D

				O4/W5 /W4	O3 /W3	O2/W2 /W1/	
<u>LOCALITY</u>	<u>CODE</u>	<u>O6</u>	<u>O5</u>	<u>O3E</u>	<u>O2E</u>	<u>O1E</u>	<u>O1</u>
GUAM	GQ 001	N/C	N/C	2450	2450	2450	2350

								E2/E1
<u>LOCALITY</u>	<u>CODE</u>	<u>E9</u>	<u>E8</u>	<u>E7</u>	<u>E6</u>	<u>E5</u>	<u>E4</u>	<u>E3</u>
GUAM	GQ 001	N/C	N/C	1550	1500	1400	1400	1400

COUNTRY: (HO) HONDURAS  
Rate of Exchange: 0.057803

CHANGE CODE(S): D,X

				O4/W5 /W4	O3 /W3	O2/W2 /W1/	
<u>LOCALITY</u>	<u>CODE</u>	<u>O6</u>	<u>O5</u>	<u>O3E</u>	<u>O2E</u>	<u>O1E</u>	<u>O1</u>
HONDURAS: OTHER	HO 999	N/C	N/C	N/C	N/C	1125	1125

COUNTRY: (HU) HUNGARY  
Rate of Exchange: 0.004255

CHANGE CODE(S): X

				O4/W5 /W4	O3 /W3	O2/W2 /W1/	
<u>LOCALITY</u>	<u>CODE</u>	<u>O6</u>	<u>O5</u>	<u>O3E</u>	<u>O2E</u>	<u>O1E</u>	<u>O1</u>
HUNGARY	HU 999	622750	622750	622750	622750	587500	540500

								E2/E1
		<u>E9</u>	<u>E8</u>	<u>E7</u>	<u>E6</u>	<u>E5</u>	<u>E4</u>	<u>E3</u>
HUNGARY	HU 999	586326	586326	540500	499610	485980	470000	470000

COUNTRY: (IC) ICELAND  
Rate of Exchange: 0.012903

CHANGE CODE(S): X

COUNTRY: (IN) INDIA  
Rate of Exchange: 0.021612

CHANGE CODE(S): X

COUNTRY: (EI) IRELAND  
Rate of Exchange: 1.149425

CHANGE CODE(S): X

COUNTRY: (IS) ISRAEL  
Rate of Exchange: 0.235849

CHANGE CODE(S): X

COUNTRY: (IT) ITALY  
Rate of Exchange: 1.149425

CHANGE CODE(S): X

COUNTRY: (JS) JERUSALEM  
Rate of Exchange: 0.235849

CHANGE CODE(S): X

COUNTRY: (LH) LITHUANIA

CHANGE CODE(S): E

CLIMATE CODE: 1

UTILITY/RECURRING MAINTENANCE ALLOWANCE: 496

MOVE-IN HOUSING ALLOWANCE (MIHA)/MISCELLANEOUS: 0

RATE OF EXCHANGE: \$0.332901

MEMBERS WITH DEPENDENTS - RENTAL CEILINGS

(LITHUANIAN LITA/MONTHLY)

(MEMBERS WITHOUT DEPENDENTS, MULTIPLY CEILING BY 90%)

<u>LOCALITY</u>	<u>LOCALITY CODE</u>	<u>O6</u>	<u>O5</u>	O4/W5 /W4	O3 /W3	O2/W2 /W1/	<u>O1</u>
				<u>O3E</u>	<u>O2E</u>	<u>O1E</u>	
LITHUANIA	LH 999	2500	2500	2500	2500	2056	2056

<u>LOCALITY</u>	<u>LOCALITY CODE</u>	<u>E9</u>	<u>E8</u>	<u>E7</u>	<u>E6</u>	<u>E5</u>	<u>E4</u>	E2/E1 <u>E3</u>
LITHUANIA	LH 999	2230	2230	2056	2056	1849	1849	1849

COUNTRY: (LU) LUXEMBOURG  
Rate of Exchange: 1.149425

CHANGE CODE(S): X

COUNTRY: (NP) NEPAL  
Rate of Exchange: 0.013263

CHANGE CODE(S): X

COUNTRY: (NL) NETHERLANDS  
Rate of Exchange: 1.149425

CHANGE CODE(S): X

COUNTRY: (NZ) NEW ZEALAND

CHANGE CODE(S): D

	LOCALITY								E2/E1
<u>LOCALITY</u>	<u>CODE</u>	<u>E9</u>	<u>E8</u>	<u>E7</u>	<u>E6</u>	<u>E5</u>	<u>E4</u>	<u>E3</u>	
NEW ZEALAND:	NZ								
CHRISTCHURCH	003			SAME AS OTHER					
OTHER	999	N/C	N/C	N/C	N/C	1500	1500	1500	

SAME AS OTHER

COUNTRY: (NO) NORWAY  
Rate of Exchange: 0.135870

CHANGE CODE(S): X

COUNTRY: (PL) POLAND  
Rate of Exchange: 0.251256

CHANGE CODE(S): X

<u>LOCALITY</u>	<u>LOCALITY</u> <u>CODE</u>	<u>O6</u>	<u>O5</u>	O4/W5 /W4 <u>O3E</u>	O3 /W3 <u>O2E</u>	O2/W2 /W1/ <u>O1E</u>	<u>O1</u>
POLAND	PL						
KRAKOW	005	5309	4779	4779	4779	4211	3765
WARSAW	001	10763	9697	8954	8550	8550	7639
OTHER	999	0	0	0	0	0	0

<u>LOCALITY</u>	<u>LOCALITY</u> <u>CODE</u>	<u>E9</u>	<u>E8</u>	<u>E7</u>	<u>E6</u>	<u>E5</u>	<u>E4</u>	E2/E1 <u>E3</u>
POLAND	PL							
KRAKOW	005	4087	4087	3765	3765	3382	3382	3146
WARSAW	001	8285	8285	7639	7639	6863	6863	6385
OTHER	999	0	0	0	0	0	0	0

COUNTRY: (PO) PORTUGAL  
Rate of Exchange: 1.149425

CHANGE CODE(S): D,X

<u>LOCALITY</u>	<u>LOCALITY</u> <u>CODE</u>	<u>O6</u>	<u>O5</u>	O4/W5 /W4 <u>O3E</u>	O3 /W3 <u>O2E</u>	O2/W2 /W1/ <u>O1E</u>	<u>O1</u>
PORTUGAL:	PO						
AZORES	015	898	898	898	898	898	898

<u>LOCALITY</u>	<u>LOCALITY</u> <u>CODE</u>	<u>E9</u>	<u>E8</u>	<u>E7</u>	<u>E6</u>	<u>E5</u>	<u>E4</u>	E2/E1 <u>E3</u>
PORTUGAL:	PO							
AZORES	015	898	898	898	813	800	800	N/C
LISBON 1/	002	N/C	N/C	N/C	N/C	1550	N/C	N/C



COUNTRY: (RQ) PUERTO RICO

CHANGE CODE(S): D

				O4/W5	O3	O2/W2	
	LOCALITY			/W4	/W3	/W1/	
<u>LOCALITY</u>	<u>CODE</u>	<u>O6</u>	<u>O5</u>	<u>O3E</u>	<u>O2E</u>	<u>O1E</u>	<u>O1</u>
PUERTO RICO:	RQ						
CAGUAS	015			SAME AS SAN JUAN			
CAYEY	025			SAME AS SAN JUAN			
FAJARDO	030			SAME AS ROOSEVELT ROADS			
GUAYNABO	045			SAME AS SAN JUAN			
HUMACO	050			SAME AS ROOSEVELT ROADS			
LUQUILLO	055			SAME AS ROOSEVELT ROADS			
MAYAGUEZ	060	1200	1200	1200	1200	1200	1200
ROOSEVELT							
ROADS	070	N/C	2067	2067	N/C	1667	1556
SABANA SECA	075			SAME AS SAN JUAN			
SAN JUAN (INCL							
BAYAMON,							
CAROLINA, AND							
FORT BUCHANAN)	080	2343	2343	1975	N/C	N/C	N/C
VEGA BAJA	085			SAME AS SAN JUAN			

								E2/E1
	LOCALITY							
<u>LOCALITY</u>	<u>CODE</u>	<u>E9</u>	<u>E8</u>	<u>E7</u>	<u>E6</u>	<u>E5</u>	<u>E4</u>	<u>E3</u>
PUERTO RICO:	RQ							
AGUADILLA (INCL								
CG AS BORINQUEN)	001			SAME AS OTHER				
ARECIBO	005			SAME AS OTHER				
CAGUAS	015			SAME AS SAN JUAN				
CAYEY	025			SAME AS SAN JUAN				
FAJARDO	030			SAME AS ROOSEVELT ROADS				
GUAYAMA	040			SAME AS PONCE				
GUAYNABO	045			SAME AS SAN JUAN				
HUMACO	050			SAME AS ROOSEVELT ROADS				
ISABELA	053			SAME AS OTHER				
LUQUILLO	055			SAME AS ROOSEVELT ROADS				
PONCE (INCL FT								
ALLEN & CAMP								
SANTIAGO)	065	N/C	N/C	N/C	1050	1050	1000	N/C
ROOSEVELT								
ROADS	070	1700	1700	1445	N/C	1056	N/C	1000
SABANA SECA	075			SAME AS SAN JUAN				
SAN JUAN (INCL								
BAYAMON,								
CAROLINA, AND								
FORT BUCHANAN)	080	N/C	N/C	N/C	1300	1260	1200	1200
VEGA BAJA	085			SAME AS SAN JUAN				
OTHER	999	N/C	N/C	1000	1000	1000	N/C	N/C

COUNTRY: (SN) SINGAPORE

CHANGE CODE(S): X

Rate of Exchange: 0.569476

COUNTRY: (SP) SPAIN  
Rate of Exchange: 1.149425

CHANGE CODE(S): X

COUNTRY: (SW) SWEDEN  
Rate of Exchange: 0.123609

CHANGE CODE(S): X

COUNTRY: (SZ) SWITZERLAND  
Rate of Exchange: 0.716025

CHANGE CODE(S): X

COUNTRY: (TH) THAILAND

CHANGE CODE(S): D

				O4/W5	O3	O2/W2	
	LOCALITY			/W4	/W3	/W1/	
<u>LOCALITY</u>	<u>CODE</u>	<u>O6</u>	<u>O5</u>	<u>O3E</u>	<u>O2E</u>	<u>O1E</u>	<u>O1</u>

THAILAND:	TH						
BANGKOK (FOR							
MEMBERS WITHOUT							
RENTAL ADVANCES) 001		116614	116614	116614	N/C	N/C	N/C

COUNTRY: (UK) UNITED KINGDOM  
Rate of Exchange: 1.680108

CHANGE CODE(S): X

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## SECTION C

### EXCHANGE RATE INFORMATION

CHANGES TO ALLOWANCES ARE BASED ON VALUE FLUCTUATIONS OF FOREIGN MONETARY UNITS IN RELATION TO THE U.S. DOLLAR. EXCHANGE RATES USED BY THE COMMITTEE FOLLOW:

EXCHANGE RATE (TO 1 DLR U.S.)

LOCALITY	FROM	TO
AUSTRIA	0.8095	0.87
BELGIUM	0.8095	0.87
BRAZIL	2.95	2.847
COSTA RICA	385.524	398.7
ESTONIA	12.6654	13.612
FINLAND	0.8095	0.87
FRANCE	0.8095	0.87
GERMANY	0.8095	0.87
GIBRALTAR	0.5747	0.5952
GREECE	0.8095	0.87
HONDURAS	16.77	17.3
HUNGARY	231.32	235
ICELAND	69.5	77.5
INDIA	47.7	46.27
IRELAND	0.8095	0.87
ISRAEL	4.336	4.24
ITALY	0.8095	0.87
JERUSALEM	4.336	4.24
LITHUANIA	2.795	3.0039
LUXEMBOURG	0.8095	0.87
MAURITIUS	28.1	28.98
NEPAL	78	75.4
NETHERLANDS	0.8095	0.87
NORWAY	7.06	7.36
POLAND	3.66	3.98
PORTUGAL	0.8095	0.87
SINGAPORE	1.706	1.756
SPAIN	0.8095	0.87
SWEDEN	7.67	8.09
SWITZERLAND	1.27	1.3966
UNITED KINGDOM	0.5747	0.5952

7. POC FOR THIS MESSAGE IS J. O'CONNOR (703) 325-1431, COMM FAX 703-325-2945,

OR E-MAIL [JOSEPH.O'CONNOR@PERDIEM.OSD.MIL](mailto:JOSEPH.O'CONNOR@PERDIEM.OSD.MIL).

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ADDITIONAL NOTES:

1. ALLOWANCE CHANGES ARE ALSO AVAILABLE FROM THREE OTHER SOURCES: THE NORMAL TRANSACTION FILE, DISPATCHED TO ALL DFAS FINANCE CENTERS VIA DEFENSE MANPOWER DATA CENTER (DMDC); THE PER DIEM COMMITTEE'S FTP SERVER (<ftp://www.perdiem.osd.mil/msggs>); AND THE WEB. THOSE OFFICES AND ORGANIZATIONS NOT ABLE TO RECEIVE ALLOWANCE CHANGES VIA ANY OF THE THREE MODES MENTIONED ABOVE SHOULD ACCESS THE DATA THROUGH THEIR NORMAL FINANCE CENTER ORGANIZATION OR PARENT AGENCY.

2. WHERE PRACTICAL, ONLY LOCALITIES WHICH CHANGE ARE LISTED. LOCALITIES NOT LISTED REMAIN UNCHANGED. NO LISTING IS DELETED UNLESS SPECIFICALLY STATED.

3. COST-OF-LIVING AND OVERSEAS HOUSING ALLOWANCE CHANGE CODE SYMBOLS ARE: '**D**' (CHANGES BASED ON NEW COST DATA); '**X**' (CHANGES BASED ON A FOREIGN EXCHANGE RATE ADJUSTMENT); AND '**E**' (CHANGES BASED ON AN EMERGENCY ACTION).

4. DATA CHANGES TO COST-OF-LIVING ALLOWANCES ARE BASED ON REVIEW OF RETAIL PRICE SCHEDULES RECEIVED FROM THE DEPARTMENT OF STATE OR FROM COMMANDS.

5. DATA CHANGES TO OVERSEAS HOUSING ALLOWANCE RENTAL CEILINGS ARE BASED ON REVIEW OF DFAS FINANCE CENTER DATA AND/OR SUPPLEMENTAL DATA FROM COMMANDS; CHANGES TO UTILITY/RECURRING MAINTENANCE, AND TO MOVE-IN HOUSING (MIHA)/MISCELLANEOUS ALLOWANCES ARE BASED ON REVIEW OF HOUSING COST DATA SUBMITTED BY COMMANDS.